## PATENT COOPERATION TREATY

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To: DEBORAH A. SOMERVILLE KENYON & KENYON ONE BROADWAY NEW YORK, NY 10004

DEBORAH A. SOMERVILLE KENYON & KENYON		PCT		
ONE BROADWAY NEW YORK, NY 10004		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
			(PCT Rule 43bis.1)	
·		Date of mailing (day/month/year)	20 JUL 2006	
Applicant's or agent's file reference	<del></del>	FOR FURTHER		
11245/53476			See paragraph 2 below	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US04/43482	20 December 2004 (20		19 December 2003 (19.12.2003)	
International Patent Classification (IPC	or both national classification	ation and IPC		
IPC: <b>A61K 38/00</b> ( 2006.01) USPC: 514/12				
Applicant	•			
IMCLONE SYSTEMS INCORPORAT	ED			
1. This opinion contains indications r	elating to the following iter	ms:		
Box No. I Basis of t	he opinion		,	
Box No. II Priority	Priority			
Box No. III Non-estal	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of u	nity of invention			
Box No. V Reasoned applicabi	statement under Rule 43ba	is.1(a)(i) with regard to ons supporting such st	o novelty, inventive step or industrial tatement	
Box No. VI Certain d	ocuments cited			
Box No. VII Certain d	efects in the international a	pplication		
Box No. VIII Certain o				
2. FURTHER ACTION				
International Preliminary Examin	ing Authority ("IPEA") on the IPEA and the chosen	except that this does in IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an le International Bureau under Rule 66.1bis(b) ered.	
If this opinion is, as provided about PEA a written reply together, who f Form PCT/ISA/220 or before the For further options, see Form PCT	ere appropriate, with amen e expiration of 22 months	dments, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.	
roi initio options, see rointi otriorezzo.				
3. For further details, see notes to For	m PCT/ISA/220.			
Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents	US Date of comp 23 June 2006	letion of this opinion (23.06.2006)	Authorized officer Valle Boll-Harris Paris	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	i -	•	Telephone No. (571) 272 -1600	

Form PCT/ISA/237 (cover sheet) (April 2005)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Internatio	nal app	plication	No.

PCT/US04/43482

Box No	o. I Basis of this opinion			
1. With	regard to the language, this opinion has been established on the basis of:			
$\boxtimes$	the international application in the language in which it was filed			
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).			
	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:			
a.	type of material			
	a sequence listing			
	table(s) related to the sequence listing			
b.	format of material			
	on paper			
	in electronic form			
c.	time of filing/furnishing			
	contained in the international application as filed.			
	filed together with the international application in electronic form.			
	furnished subsequently to this Authority for the purposes of search.			
3. 🗌	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.			
4. Addit	ional comments:			
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/43482

Box No. V	Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial
	applicability; citations and explanations supporting such statement

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#### 2. Citations and explanations:

Claims 1-9, 11, 12, 15-19, and 25 lack novelty under PCT Article 33(2) as being anticipated by US 20030203844 (Delfani et al) 30 October 2003. The reference teaches methods of treatment of CNS disorders using reagents that modulate the proliferation, migration, differentiation and survival of central nervous system cells (see Abstract). The reagents taught include FGF2 [0338], VEGF (whole document), and neural stem cells propagated ex vivo [0035]. The effect of modulating the migration of neural progenitor cells recited in the instant claims merely reflects a newly discovered inherent property; this outcome would occur whenever the methods taught in the prior art are practiced.

Claims 20, 21, and 25 lack novelty under PCT Article 33(2) as being anticipated by US Patent 6261585, 17 July 2001. The reference teaches incorporation in of VEGF and bFGF into biocompatible polymers for in vivo implantation (column 3, lines 35-50), thereby anticipating claims 20, 21, and 25.

Claim 10 lacks an inventive step under PCT Article 33(3) as being obvious over US 20030203844. If one aims to use undifferentiated stem cells, it would be obvious to pick cells that do not express known markers of differentiation.

Claims 13, 14, 22-24, and 26 lack an inventive step under PCT Article 33(3) as being obvious over US 20030203844 in view of US Patent 626158. As noted, US 20030203844 teaches treatments using VEGF, FGF2, and neural stem cells and US Patent 6261585 teaches the use of these elements in biocompatible matrices. The instant claims recite the obvious combination of these elements.

Claims 1-26 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/43482

Box No. VI Certain	documents	cited
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1. Certain published documents (Rules 43bis.1 and 70.10)

Application No.

<u>Patent No.</u>

Publication date (day/month/year)

Filing date (day/month/year)

Priority date (valid claim) (day/month/year)

2. Non-written disclosures (Rules 43bis.1 and 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)